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(Not for submission under 37 CFR 1.99)

| Application Number | | 09933639 | | |
|----------------------|-----|------------|--|--|
| Filing Date | | 2001-08-20 | | |
| First Named Inventor | Hsu | | | |
| Art Unit | | 2619 | | |
| Examiner Name | | | | |
| Attorney Docket Numb | per | 010498 | | |

| | U.S.PATENTS | | | | | | | | | |
|----------------------|-------------|---------|---------------------------|------------|---|--|--|--|--|--|
| Examiner Initial* | | | Kind Code ¹ | Issue Date | Name of Patentee or Applicant of cited Document | Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear | | | | |
| | 1 | 4323921 | | 1982-04-06 | Guillou | | | | | |
| | 2 | 5150412 | | 1992-09-22 | Maru , | | | | | |
| | 3 | 5353332 | | 1994-10-04 | Raith, et al. | | | | | |
| | 4 | 5404563 | | 1995-04-04 | Green, et al. | a. | | | | |
| | 5 | 5410602 | | 1995-04-25 | Finkelstein, et al. | | | | | |
| | 6 | 5448568 | | 1995-09-05 | Delpuch, et al. | | | | | |
| | 7 | 5467398 | | 1995-11-14 | Pierce, et al. | | | | | |
| | 8 | 5473609 | | 1995-12-05 | Chaney | | | | | |

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| Art Unit | | 2619 | | | | |
| Examiner Name | | * | | | | |
| Attorney Docket Number | | 010498 | | | | |

| 9 | 5473642 | 1995-12-05 | Osawa | |
|----|---------|------------|-------------------|--|
| 10 | 5485577 | 1996-01-16 | Eyer, et al. | |
| 11 | 5537474 | 1996-07-16 | Brown, et al. | |
| 12 | 5565909 | 1996-10-15 | Thibadeau, et al. | |
| 13 | 5673259 | 1997-09-30 | Quick, Jr. | |
| 14 | 5729540 | 1998-03-17 | Wegrzyn | |
| 15 | 5758068 | 1998-05-26 | Brandt, et al. | |
| 16 | 5768276 | 1998-06-16 | Diachina, et al. | |
| 17 | 5787347 | 1998-07-28 | Yu, et al. | |
| 18 | 5796829 | 1998-08-18 | Newby, et al. | |
| 19 | 5835730 | 1998-11-10 | Grossman, et al. | |

(Not for submission under 37 CFR 1.99)

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| First Named Inventor Hsu | | | | | |
| Art Unit | | 2619 | | | |
| Examiner Name | I | | | | |
| Attorney Docket Number | | 010498 | | | |

| 5 | 5870474 | | 1999-02-09 | Wasilewski, et al. | |
|---|---------|---|---|---|---|
| 1 5 | 5887252 | | 1999-03-23 | Noneman | |
| 2 5 | 5923649 | | 1999-07-13 | Raith | |
| 3 5 | 990928 | | 1999-11-23 | Sklar, et al. | |
| 1 6 | 8018360 | | 2000-01-25 | Stewart, et al. | |
| 5 6 | 6047071 | | 2000-04-04 | Shah | |
| 6 | 065061 | | 2000-05-16 | Blahut, et al. | |
| 7 6 | 073122 | | 2000-06-06 | Wool | |
| 3 6 | 081907 | | 2000-06-27 | Witty, et al. | |
| 6 | 108706 | | 2000-08-22 | Birdwell, et al. | |
|) 6 | 111866 | ALCOHOLDS | 2000-08-29 | Kweon, et al. | |
| 1 2 3 4 3 4 3 4 3 4 3 4 3 4 3 4 3 4 3 4 3 | | 5887252 5923649 5990928 6018360 6047071 6065061 6073122 6081907 6108706 | 5887252 5923649 5990928 6018360 6047071 6065061 6073122 6081907 6108706 | 5887252 1999-03-23 2 5923649 1999-07-13 3 5990928 1999-11-23 4 6018360 2000-01-25 5 6047071 2000-04-04 5 6065061 2000-05-16 6 6073122 2000-06-06 6 6081907 2000-06-27 | 1999-03-23 Noneman 1999-07-13 Raith 1999-07-13 Sklar, et al. 2000-01-25 Stewart, et al. 2000-04-04 Shah 2000-05-16 Blahut, et al. 6073122 2000-06-06 Wool 2000-06-27 Witty, et al. |

(Not for submission under 37 CFR 1.99)

| Application Number | 09933639 | | | |
|------------------------|------------|--|--|--|
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| Art Unit | 2619 | | | |
| Examiner Name | | | | |
| Attorney Docket Number | 010498 | | | |

| | | · · · · · · · · · · · · · · · · · · · | | |
|------|-----------|---|--------------------|---|
| 31 | 6128490 | 2000-10-03 | Shaheen, et al. | |
| 32 | 6157719 | 2000-12-05 | Wasilewski, et al. | |
| 33 | 6195546 | 2001-02-27 | Leung, et al. | |
| 34 | 6201961 · | 2001-03-13; | Schindall, et al. | · |
| 35 | 6208634 | 2001-03-27 | Boulos, et al. | |
| 36 | 6233341 | 2001-05-15 | Riggins | |
| 37 | 6256509 | 2001-07-03 | Tanaka, et al. | |
| 38 | 6230024 | 2001-05-08 | Wang, et al. | |
| 39 | 6310661 | 2001-10-30 | Arsenault | |
| 40 | 6314095 | 2001-11-06 | Loa | |
| 41 | 6343280 | 2002-01-29 | Clark | |

(Not for submission under 37 CFR 1.99)

| Application Number Filing Date | | 09933639 | |
|--------------------------------|-----|------------|--|
| | | 2001-08-20 | |
| First Named Inventor | Hsu | | |
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| Examiner Name | | | |
| Attorney Docket Numb | er | 010498 | |

| | 42 | 6345307 | - | 2002-02-05 | Booth | |
|----------------------|------------|---|---------------------------|---------------------|---|--|
| | 43 | 6363242 | | 2002-03-26 | Brown, Jr., et al. | |
| | 44 | 6377810 | | 2002-04-23 | Gelger, et al. | |
| | 4 5 | 6519266 | | 2003-02-11 | Manning, et al. | |
| | 46 | 6549771 | | 2003-04-15 | Chang, et al. | |
| | 47 | 6571109 _. | | 2003-05-27 | Kim | |
| | 4 8 | 6577734 | | 2003-06-10 | Etzel, et al. | |
| | 49 | 6580756 | | 2003-06-17 | Matsui, et al. | |
| | 50 | 6608841 | | 2003-08-19 | Koodli | |
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| | | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | U.S.P. | ATENT APPLIC | CATION PUBLICATIONS | |
| Examiner Initial* | Cite No | Publication Number | Kind Code ¹ | Publication Date | Name of Patentee or Applicant of cited Document | Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear |

(Not for submission under 37 CFR 1.99)

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|----------------------|-----|------------|--|--|--|
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| Examiner Name | | | | | |
| Attorney Docket Numb | er | 010498 | | | |

| | 1 | | | | | | | | |
|----------------------|------------|---|--------------------------------|----------|---------------|---------------------|---|---|----|
| If you wis | n to ac | ld additional U.S. Publi | shed App | lication | citatio | n information p | lease click the Add butto | on. | |
| | | | F | OREIC | N PAT | ENT DOCUM | ENTS | | |
| Examiner Initial* | Cite No | Foreign Document Number ³ | Country Code ² i | | Kind Code4 | Publication Date | Name of Patentee or Applicant of cited Document | Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear | Т5 |
| | 1 | 1281561 | CN | | | 2001-01-24 | L-3 Communications Corporation | , | |
| | 2 | 1024661 | EP | | | 2000-08-02 | Hughes Electronics Corp. | | |
| | 3 | 1071296 | EP | | | 2001-01-24 | Alcatel | | |
| | 4 | 1075118 | EP | | | 2001-02-07 | Nortel Networks Limited | w) | |
| | 5 | 1213943 | EP | | | 2002-06-12 | Lucent Technologies Inc. | | |
| | 6 | 1248188 | EP | | | 2002-10-09 | NTT Docomo, Inc. | | |
| | 7 | 09-135478 | JP | | | 1997-05-20 | Sanyo Electric Co. Ltd. | | |
| | 8 | 10-093547 | JP , | | | 1998-04-10 | Canon Inc. | | |

(Not for submission under 37 CFR 1.99)

| Application Number | 09933639 | |
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| Filing Date | 2001-08-20 | |
| First Named Inventor | Hsu | |
| Art Unit | 2619 | |
| Examiner Name | | |
| Attorney Docket Number | er 010498 | |

| 9 | 11-243569 | JP | 1999-09-07 | Kokusai Electric Co. Ltd. | |
|----|-------------|----|------------|---|--|
| 10 | 11-331070 | JP | 1999-11-30 | Hitachi Ltd. | |
| 11 | 11-331150 | JP | 1999-11-30 | Sony Corp. | |
| 12 | 11-355858 | JP | 1999-12-24 | NTT Mobil Commun Network Inc. | |
| 13 | 2000-078555 | JP | 2000-03-14 | Sony Corp. | |
| 14 | 2000-196673 | JP | 2000-07-14 | Toshiba Corp. | |
| 15 | 2000-253459 | JP | 2000-09-14 | Kodo Ido Tsushin Security Gijutsu Kenkyusho:KK | |
| 16 | 2001-053675 | JP | 2001-02-23 | Toshiba Corp. | |
| 17 | 2001-077859 | JP | 2001-03-23 | Aicatel | |
| 18 | 0002406 | wo | 2000-01-13 | Nokia Networks OY | |
| 19 | 0033535 | wo | 2000-06-08 | British Telecommunications Public Limited Company | |

(Not for submission under 37 CFR 1.99)

| Application Number | | 09933639 | |
|----------------------|-----|-------------|--|
| Filing Date | | 2001-08-20 | |
| First Named Inventor | Hsu | | |
| Art Unit | | 2619 | |
| Examiner Name | | | |
| Attorney Docket Numb | er | 010498 | |

| | 20 | 0036804 | wo | | 2000-06-22 | British Telecommunications | | |
|--|------------|----------|--------------------|---------|------------------|--|--|------------|
| | 21 | 0051308 | wo | | 2000-08-31 | Telefonaktiebolaget LM Ericsson | | |
| | 22 | 0056018 | wo | | 2000-09-21 | Nortel Networks Europe S.A. | | |
| | 23 | 0079734 | wo | | 2000-12-28 | The Trustees of Columbia Univ. in the city of N.Y. | | |
| | 24 | 0110146 | wo | | 2001-02-08 | Qualcomm Incorporated | | |
| | 25 | 02061572 | wo | | 2002-08-08 | NTT Docomo, Inc. | | |
| | 26 | 02080449 | wo | | 2002-10-10 | Qualcomm Incorporated | | |
| | 27 | 03032573 | wo | | 2003-04-17 | Qualcomm Incorporated | | |
| | 28 | 9930234 | wo | | 1999-06-17 | L-3 Communications Corporation | | |
| If you wish to add additional Foreign Patent Document citation information please click the Add button | | | | | | | | |
| | | | NON-PATENT | LITE | RATURE DO | CUMENTS | | |
| Examiner Initials* | Cite No | | nal, senal, sympos | sium, d | catalog, etc), d | he article (when appropriat ate, pages(s), volume-issu | | T 5 |

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| First Named Inventor | Hsu | | |
| Art Unit | | 2619 | |
| Examiner Name | | | |
| Attorney Docket Number | | 010498 | |

| 1 | "Universal Mobile Telecommunications System (UMTS); Radio Interface for Broadcast/Multicast Services (3GPP TR 25.925 version 3.3.0 Release 1999)" ETSITR 125.925 v3.3.0, 1 December 2000, pgs 1-35, XP002230388, pg 17-18; Figure 6.5. | |
|----|--|--|
| 2 | BERKOVITS, S. "How to Broadcast a Secret" Advances in Cryptology, Eurocrypt, International Conference on the Theory and Application of Cryptographic Techniques, Springer-Verlag, Delaware, April 11, 1991, pp 535-541. | |
| 3 | FARINACCI, D., et al., "Generic Routing Encapsulation (GRE)," Network Working Group Request for Comments 2784, 1-8, March 2000. <url:http: ieft="" rfc="" rfc2784.html="" www.globecom.net=""> (retrieved on 2/14/03)</url:http:> | |
| 4 | HANDLEY, M. et al., "SDP: Session Description Protocol" Network Working Group, Request for Comments: 2327, Category: Standards Track. ISI/LBNL, April 1998, pp. 1-42. | |
| 5 | JALALI, A., et al. "Data Throughput of CDMA-HDR a High Efficiency-High Data Rate Personal Communication Wireless System," 2000 IEEE, pages 1854-1858. | |
| 6 | JOU, Y. "Developments in Third Generation (3G) CDMA Technology," 2000 IEEE, pages 460-464. | |
| 7 | KEELER, Robert E., "Interoperability Considerations for Digital HDTV," IEEE Transactions on Broadcasting, Vol. 37, No. 4, December 1991, pp. 128-130 | |
| 8 | LINUXGURUZ. "Free On-Line Dictionary of Computing," § Internet Protocol, December 2000. | |
| g | MARCHENT, B.G., et al. "Intelligent Control of Mobile Multimedia Systems" Vehicular Technology Conference 1998. VTC 98, 48th IEEE Ottawa, Canada, May 18-21, 1998; New York, USA, May 18, 1998, pp. 2047-2051. | |
| 10 | MENEZES, A.J., et al. "Key Layering and Cryptoperiods, Passage," Handbook of Applied Cryptography, CRC Press Series on Discrete Mathematices and its Applications, Boca Raton, FL, CRC Press, US, 1997, pp. 551-553, 577-581. | |
| 11 | ROSE, Greg, et al., "The Secure Real Time Transport Protocol," Internet Draft, February 2001, pp. 1-26. | |

(Not for submission under 37 CFR 1.99)

| Application Number | | 09933639 |
|------------------------|-----|------------|
| Filing Date | | 2001-08-20 |
| First Named Inventor | Hau | |
| Art Unit | | 2619 |
| Examiner Name | | |
| Attorney Docket Number | | 010498 |

| 12 | SCHNEIER, Bruce. Applied Cryptography, Second Edition, 1996 John Wiley & Sons, Inc., pp. 182-184. | |
|----|--|--|
| 13 | SHANNON, C.E., "A Mathematical Theory of Communication," The Bell System Technical Journal, Vol. 27, pp. 379-423, 623-656, July, October 1948. | |
| 14 | SIMPSON, W., "PPP in HDLC-Like Framing," Network Working Group, Request for Comments: 1662 (RFC 1662), July 1994, pages 1-17. | |
| 15 | TANENBAUM, Andrew S.: Computer Networks, Third Edition; Pub. 1996; pages 8, and 179-190 | |
| 16 | International Search Report PCT/US02/09826, ISA, EPO, 12/9/02 | |
| 17 | International Search Report PCT/US02/09829, ISA, EPO, 3/4/03 | |
| 18 | International Search Report PCT/US02/09830, ISA, EPO, 3/10/03 | |
| 19 | International Search Report PCT/US02/09831, ISA, EPO, 3/4/03 | |
| 20 | International Search Report PCT/US02/09832, ISA, EPO 11/26/02 | |
| 21 | International Search Report PCT/US02/09833, ISA, EPO 11/26/02 | |
| 22 | International Search Report PCT/US02/09834, ISA, EPO, 2/27/2003 | |

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99) Application Nur Filing Date First Named Inv Art Unit

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| Art Unit | | 2619 | |
| Examiner Name | | | |
| Attorney Docket Number | | 010498 | |

| | 23 | International Search Report PCT/US02/09835, ISA, EPO, 7/8/02 | | | | | |
|---|---------|--|--|--|-------|--|--|
| | 24 | 24 International Search Report PCT/US03/26897, ISA, EPO, 1/16/04 | | | | | |
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